0920

DATE: 10/01/2001

TIME: 15:08:23

#5

OIPE

Input Set : A:\212241.txt Output Set: N:\CRF3\10012001\1888164.raw 3 <110> APPLICANT: Ts'o, Paul O.P. Hangeland, Jon Deamond, Scott Roby, Clinton 8 <120> TITLE OF INVENTION: LIGANDS TO ENHANCE CELLULAR UPTAKE OF BIOMOLECULES 10 <130> FILE REFERENCE: 212241 12 <140> CURRENT APPLICATION NUMBER: US 09/888,164 C--> 13 <141> CURRENT FILING DATE: 2001-09-10 15 <150> PRIOR APPLICATION NUMBER: 09/282,455 ENTERED 16 <151> PRIOR FILING DATE: 1999-03-31 18 <150> PRIOR APPLICATION NUMBER: 08/755,062 19 <151> PRIOR FILING DATE: 1996-11-22 21 <150> PRIOR APPLICATION NUMBER: 60/007,480 22 <151> PRIOR FILING DATE: 1995-11-22 24 <160> NUMBER OF SEQ ID NOS: 33 26 <170> SOFTWARE: PatentIn version 3.1 28 <210> SEQ ID NO: 1 29 <211> LENGTH: 27 30 <212> TYPE: DNA 31 <213> ORGANISM: Artificial Sequence 33 <220> FEATURE: 34 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus 36 <400> SEQUENCE: 1 37 ttggcagcac accctagcag ccatgga 27 40 <210> SEQ ID NO: 2 41 <211> LENGTH: 15 42 <212> TYPE: DNA 43 <213> ORGANISM: Artificial Sequence 45 <220> FEATURE: 46 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus 🗸 48 <400> SEQUENCE: 2 49 gatgactgtc tctta 15 52 <210> SEQ ID NO: 3 53 <211> LENGTH: 15 54 <212> TYPE: DNA 55 <213> ORGANISM: Artificial Sequence 57 <220> FEATURE: 58 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus 60 <400> SEQUENCE: 3 61 aggagattga cgaga 15 64 <210> SEQ ID NO: 4 65 <211> LENGTH: 15 66 <212> TYPE: DNA 67 <213> ORGANISM: Artificial Sequence 69 <220> FEATURE: 70 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/888,164

72 <400> SEQUENCE: 4

RAW SEQUENCE LISTING DATE: 10/01/2001 PATENT APPLICATION: US/09/888,164 TIME: 15:08:23

Input Set : A:\212241.txt

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73 gttctccatg ttcgg
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76 <210> SEQ ID NO: 5
77 <211> LENGTH: 12
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus &
84 <400> SEQUENCE: 5
85 tctccatgtt cg
                                                                           12
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 15
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus (
96 <400> SEQUENCE: 6
97 gaatcctgat gtaat
                                                                           15
100 <210> SEQ ID NO:
101 <211> LENGTH: 15
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus
108 <400> SEQUENCE: 7
109 aacatgaggg aaaca
                                                                            15
112 <210> SEQ ID NO: 8
113 <211> LENGTH: 23
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus
120 <400> SEQUENCE: 8
121 tgctcatggt gcacggtcta cga
                                                                            23
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 20
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus 🗸
132 <400> SEQUENCE: 9
133 ctttcgcgac ccaacactac
                                                                            20
136 <210> SEQ ID NO: 10
137 <211> LENGTH: 21
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus
144 <400> SEQUENCE: 10
145 catgatgcac ggtctacgag a
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RAW SEQUENCE LISTING DATE: 10/01/2001 PATENT APPLICATION: US/09/888,164 TIME: 15:08:24

Input Set : A:\212241.txt

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149 <211> LENGTH: 20
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus
156 <400> SEQUENCE: 11
157 gcctttcgcg acccaacact
                                                                            20
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 17
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus
168 <400> SEQUENCE: 12
169 gcctttcgcg acccaac
                                                                            17
172 <210> SEQ ID NO: 13
173 <211> LENGTH: 17
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus
180 <400> SEQUENCE: 13
181 gcctttcgcg acccaac
                                                                            17
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 20
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus
192 <400> SEQUENCE: 14
193 gtgctcatgg tgcacggtct
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196 <210> SEQ ID NO: 15
197 <211> LENGTH: 16
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus
204 <400> SEQUENCE: 15
205 gtgctcatgg tgcacg
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208 <210> SEQ ID NO: 16
209 <211> LENGTH: 20
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus
216 <400> SEQUENCE: 16
217 ctgctcatgg tgcacggtct
                                                                            20
220 <210> SEQ ID NO: 17
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/888,164

DATE: 10/01/2001 TIME: 15:08:24

Input Set : A:\212241.txt

	<211> LENGTH: 15	
	<212> TYPE: DNA	
	<213> ORGANISM: Hepatitis D Virus	
	<400> SEQUENCE: 17	
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	<210> SEQ ID NO: 18	
	<211> LENGTH: 15	
	<212> TYPE: DNA	
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	<400> SEQUENCE: 18	
	ctcggctaga ggcgg	15
	<210> SEQ ID NO: 19	
	<211> LENGTH: 15	
	<212> TYPE: DNA	
	<213> ORGANISM: Hepatitis D Virus	
	<400> SEQUENCE: 19	
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	<210> SEQ ID NO: 20	
	<211> LENGTH: 15	
	<212> TYPE: DNA	
	<213> ORGANISM: Hepatitis D Virus	
	<400> SEQUENCE: 20	
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	<210> SEQ ID NO: 21	
	<211> LENGTH: 17	
	<212> TYPE: DNA	
	<213> ORGANISM: Hepatitis D Virus	
	<400> SEQUENCE: 21	
	atatcctatg gaaatcc	17
	<210> SEQ ID NO: 22	
	<211> LENGTH: 15	
	<212> TYPE: DNA	
	<213> ORGANISM: Hepatitis D Virus	
	<400> SEQUENCE: 22	
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	<210> SEQ ID NO: 23	
	<211> LENGTH: 17	
	<212> TYPE: DNA	
	<213> ORGANISM: Hepatitis D Virus	
	<400> SEQUENCE: 23	
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	<210> SEQ ID NO: 24	
	<211> LENGTH: 15	
	<212> TYPE: RNA	
	<213> ORGANISM: Artificial Sequence	/
	<220> FEATURE:	
	<223> OTHER INFORMATION: (RNA) tragment from hepatoma-derived cells	
	<400> SEQUENCE: 24	
292	agucagucag ucagu	15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/888,164

DATE: 10/01/2001 TIME: 15:08:24

Input Set : A:\212241.txt

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295 <210> SEQ ID NO: 25
296 <211> LENGTH: 15
297 <212> TYPE: RNA)
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: (RNA) fragment from hepatoma-derived cells
303 <400> SEQUENCE: 25
304 guucuccaug uucag
                                                                            15
307 <210> SEQ ID NO: 26
308 <211> LENGTH 21
309 <212> TYPE: RNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: (RNA tragment from hepatoma-derived cells C
315 <400> SEQUENCE: 26
                                                                            21
316 wuuauaaggg ucgaugucca u
319 <210> SEQ ID NO: 27
320 <211> LENGTH: 15
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Antiviral oligonucleotide
327 <400> SEQUENCE: 27
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328 gttctccatg ttcag
331 <210> SEQ ID NO: 28
332 <211> LENGTH: 21
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Antiviral oligonucleotide
339 <400> SEQUENCE: 28
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340 tttataaggg tcgatgtcca t
343 <210> SEQ ID NO: 29
344 <211> LENGTH: 16
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
349 <223> OTHER INFORMATION: Control oligomer
351 <400> SEQUENCE: 29
352 aaagccaccc aaggca
                                                                            16
355 <210> SEQ ID NO: 30
356 <211> LENGTH: 22
357 <212> TYPE: DNA
358 <213> ORGANISM: Artificial Sequence
360 <220> FEATURE:
361 <223> OTHER INFORMATION: DNA fragment non-complementary from Hepatitis B virus
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364 tgagctatgc acattcagat tt
                                                                            22
367 <210> SEQ ID NO: 31
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VERIFICATION SUMMARY PATENT APPLICATION: US/09/888,164

DATE: 10/01/2001

TIME: 15:08:25

Input Set : A:\212241.txt

Output Set: N:\CRF3\10012001\1888164.raw

 $L:13\ M:271\ C:$  Current Filing Date differs, Replaced Current Filing Date